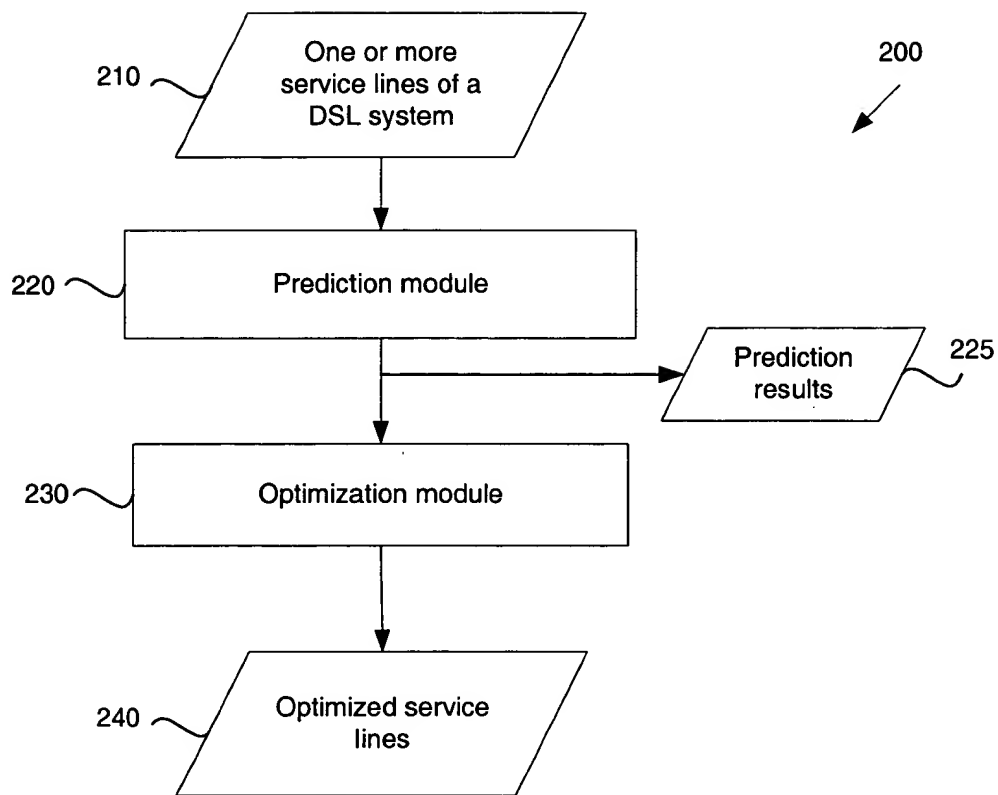
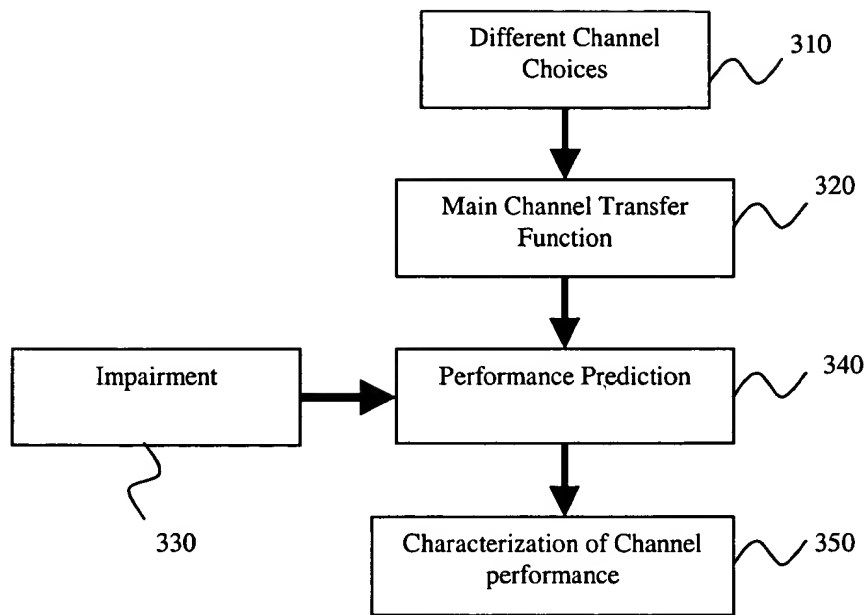


**Figure 1**

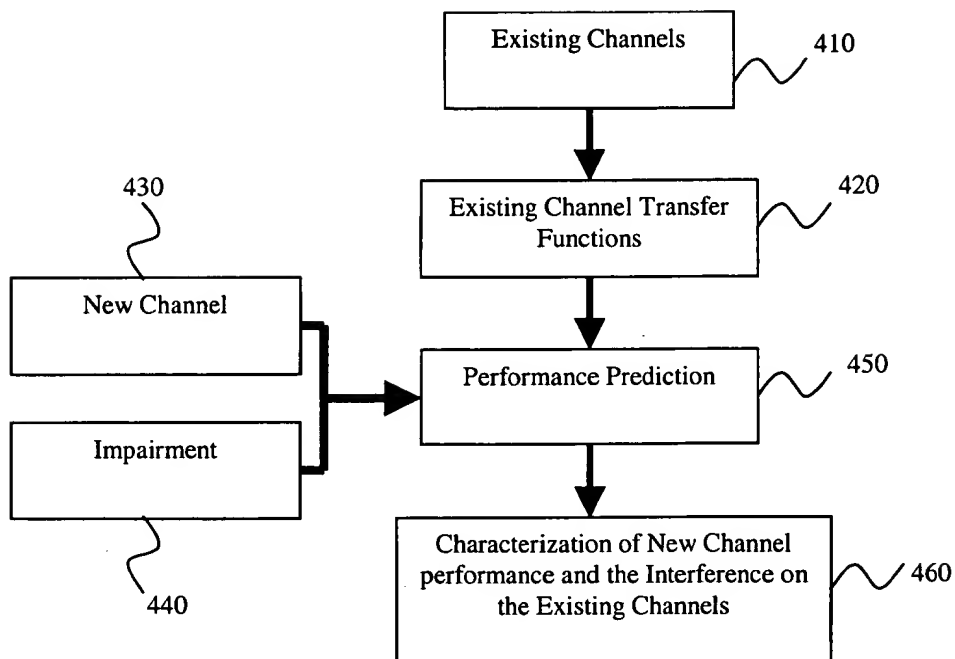
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**Figure 2**



**Figure 3**



**Figure 4**

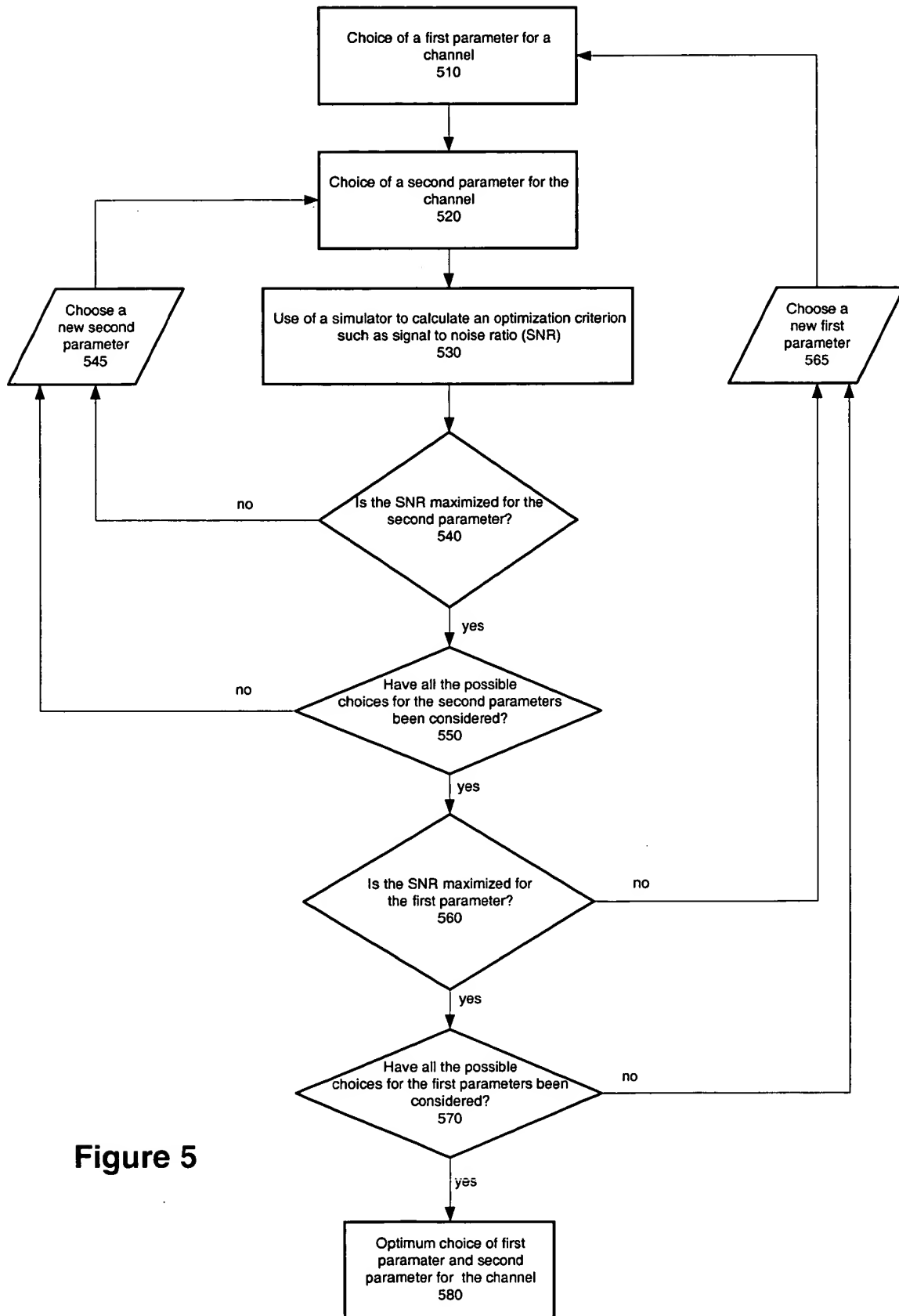


Figure 5

UNITED STATES PATENT APPLICATION  
FOR  
METHOD AND APPARATUS FOR THE PREDICTION AND OPTIMIZATION  
IN IMPAIRED COMMUNICATION SYSTEMS

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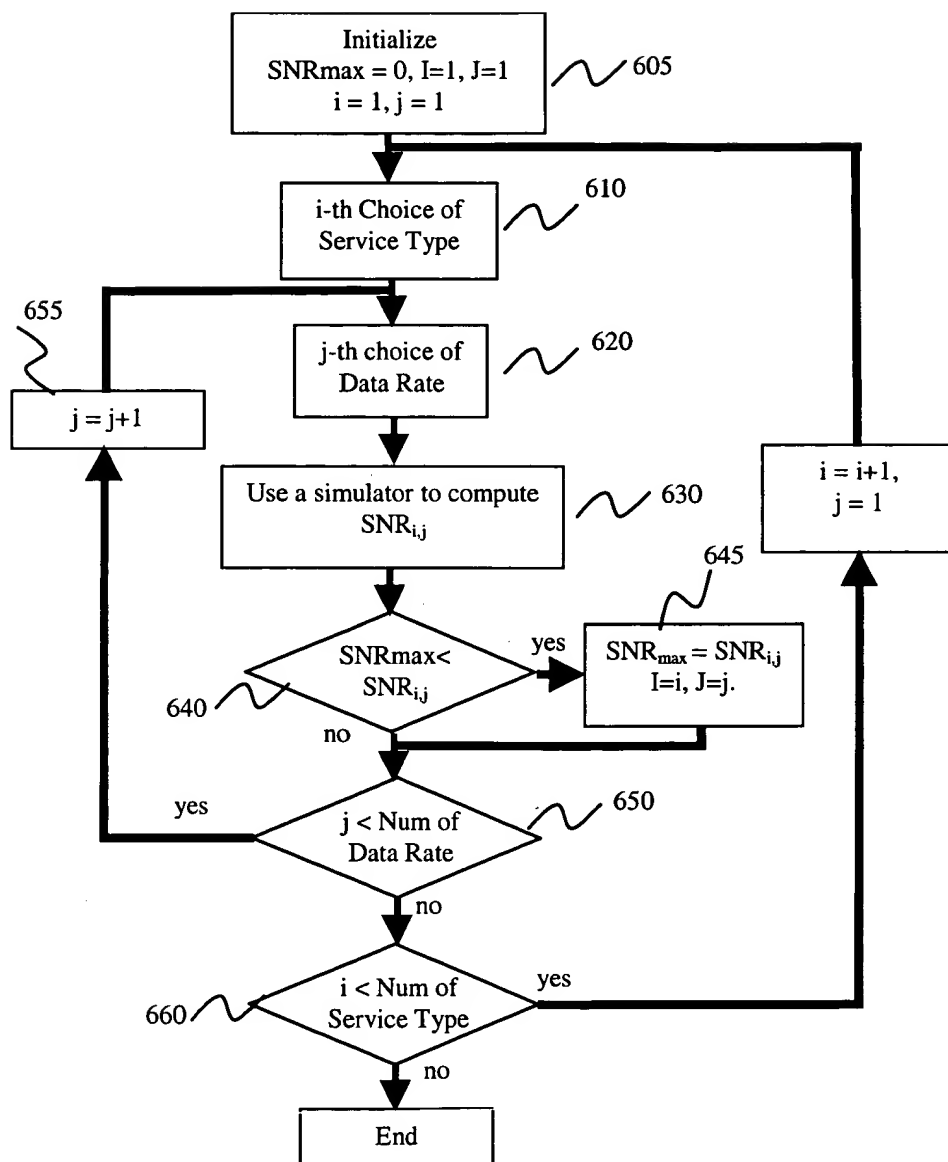


Figure 6

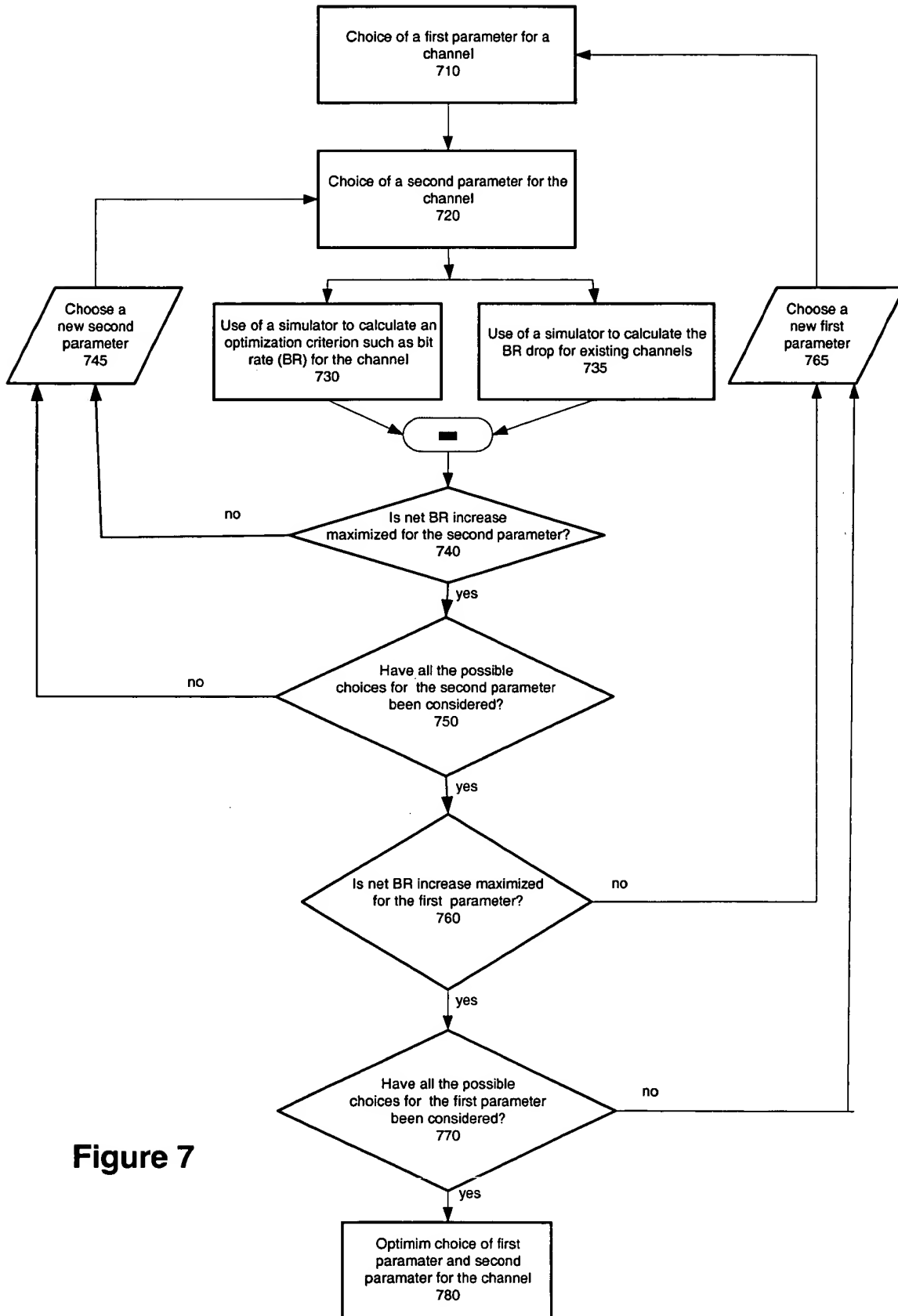
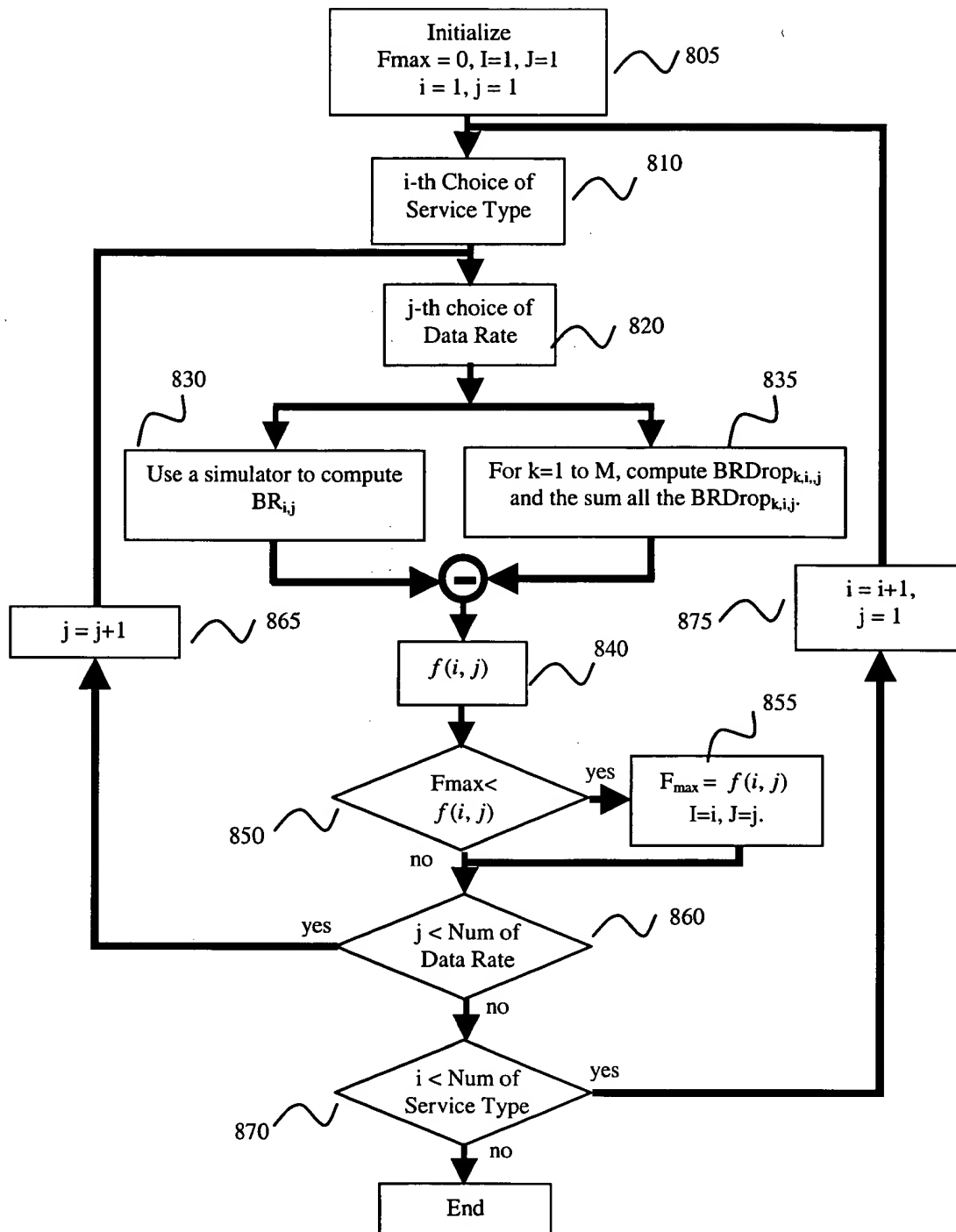
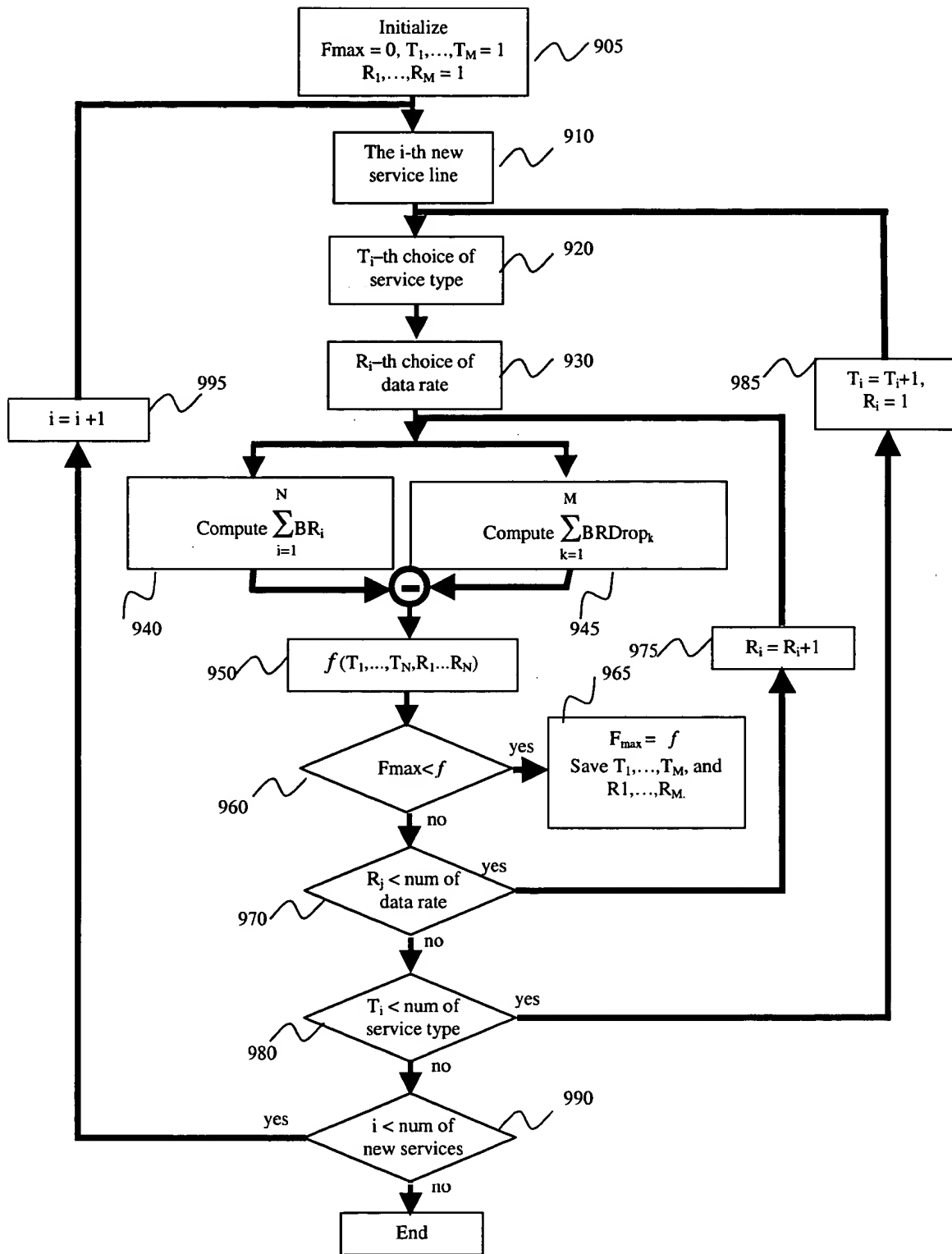


Figure 7





**Figure 8**



**Figure 9**



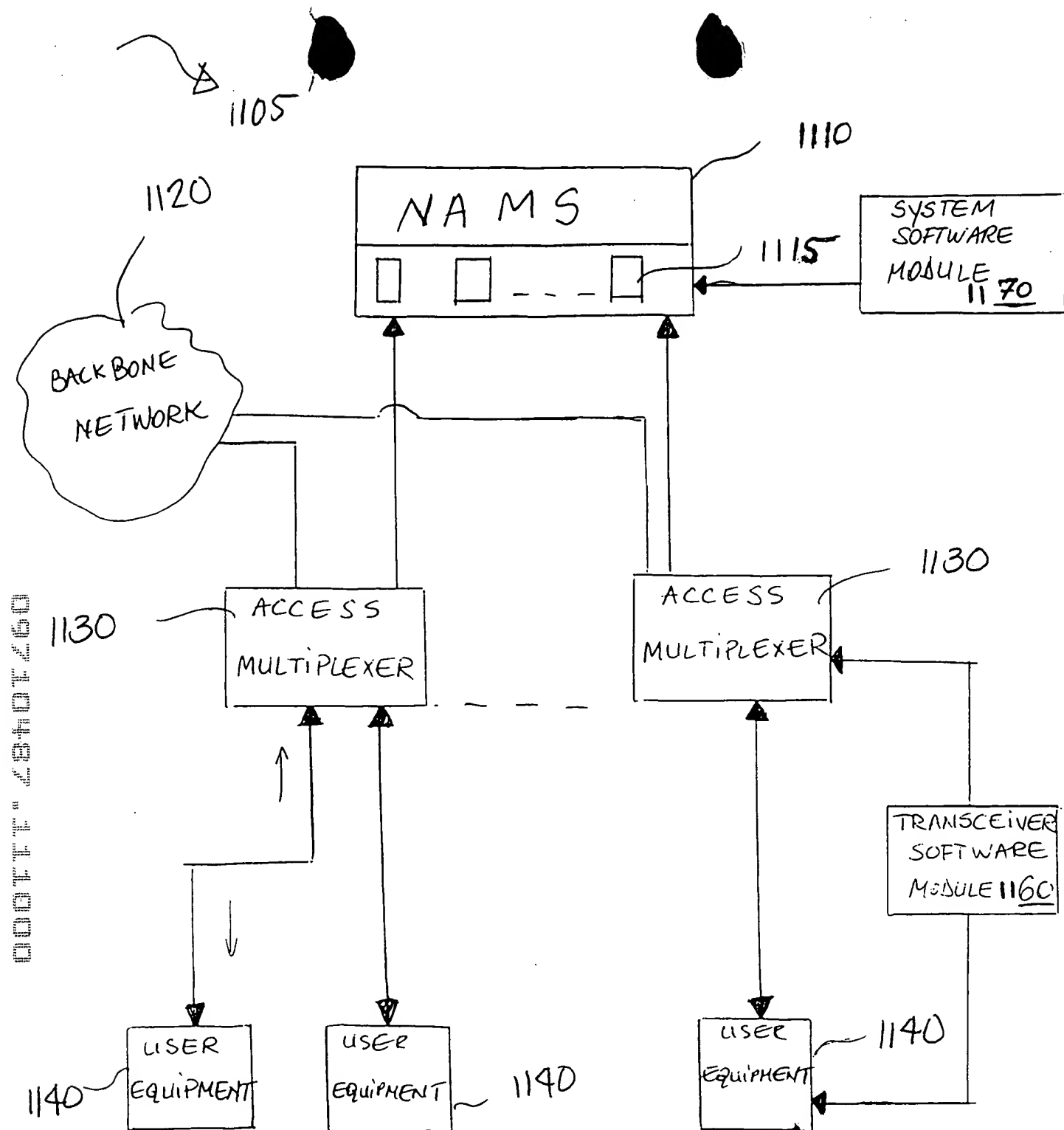


Fig. 11

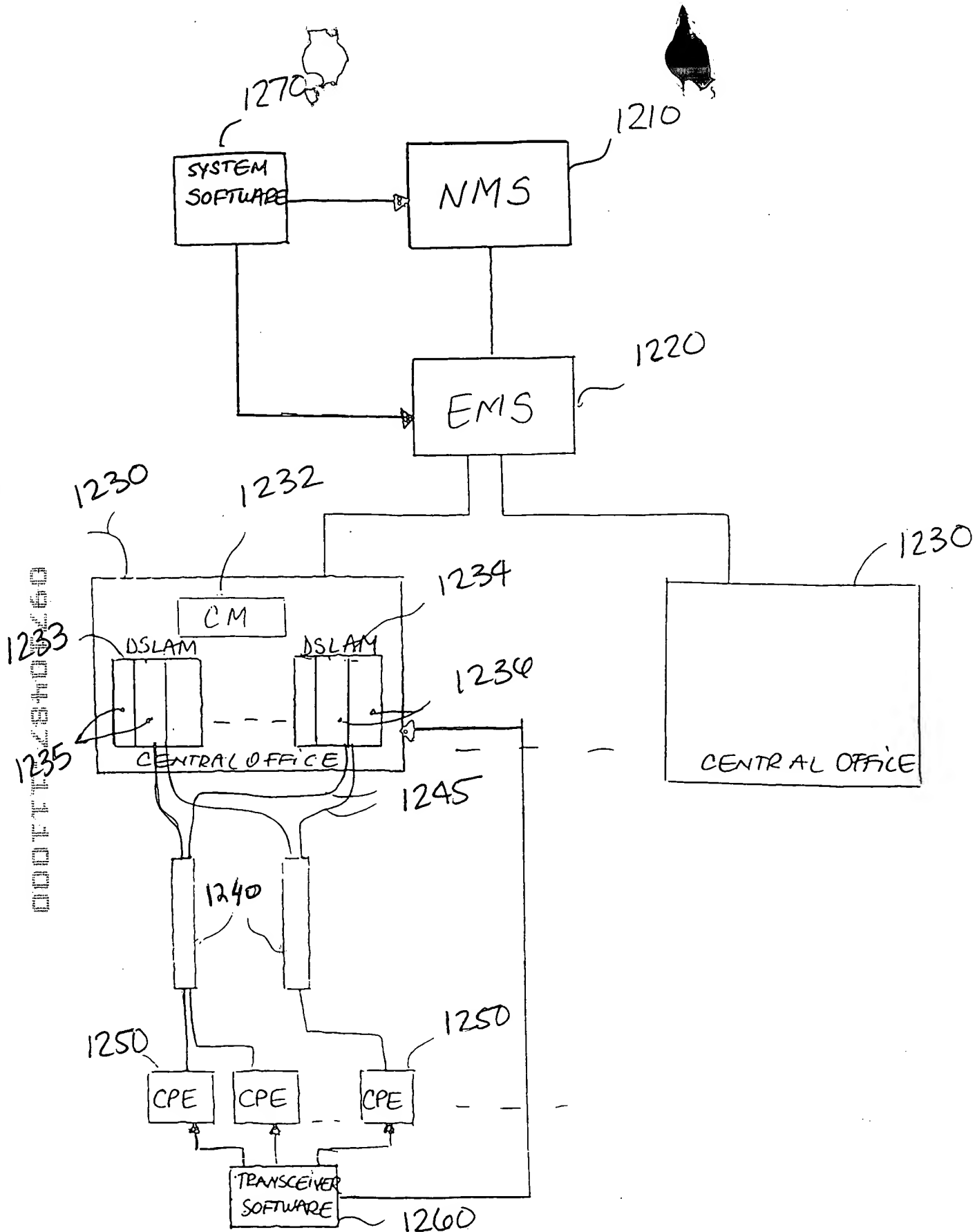


Fig. 12